Molecular and Cellular Biochemistry:

An International Journal for Chemical Biology in Health and Disease

CONTENTS VOLUME 191, Nos. 1 & 2, January (II) 1999

A MOLECULAR AND CELLULAR VIEW OF PROTEIN KINASE C	K2
Drs. Khalil Ahmed, E. Gambaz and O.G. Issinger	

Preface	1-2
G. Dobrowolska, F.J. Lozeman, D. Li and E.G. Krebs: CK2, a protein kinase of the next millennium	3-12
S. Sarno, P. Vaglio, L. Cesaro, O. Marin and L.A. Pinna: A multifunctional network of basic residues confers unique properties to	
protein kinase CK2	13-19
A. Krehan and W. Pyerin: Intermolecular contact sites in protein kinase CK2	21-28
M.J. Benitez, G. Mier, F. Brione, F.J. Moreno and J.S. Jiménez: Binding a polylysine to protein kinase CK2, measured by Surface	
Plasmon Resonance	29-33
F. Meggio, O. Marin, S. Sarno and L.A. Pinna: Functional analysis of CK2β-derived synthetic fragments	35-42
D. Leroy, O. Filhol, N. Quintaine, D. Sarrouilhe, P. Loue-Mackenbach, E.M. Chambaz and C. Cochet: Dissecting subdomains involved	
in multiple functions of the CK2β subunit	43-50
$M.~Kusk, R.~Ahmed, B.~Thomsen, C.~Bendixen, OG.~Issinger and B.~Boldyreff: Interactions of protein kinase CK2 \\ \beta subunit within the contraction of the contracti$	
the holoenzyme and with other proteins	51-58
U. Wirkner and W. Pyerin: CK2α loci in the human genome: Structure and transcriptional activity	59-64
X. Xu, E. Landesman-Bollag, P.L. Channavajhala and D.C. Seldin: Murine protein kinase CK2: Gene and oncogene	65-74
I. Korn, S. Gutkind, N. Srinivasan, T.L. Blundell, C.C. Allende and J.E. Allende: Interactions of protein kinase CK2 subunits	75-83
D. Leroy, G.C. Alghisi, E. Roberts, O. Filhol-Cochet and S.M. Gasser: Mutations in the C-terminal domain of topoisomerase II	
affect meiotic function and interaction with the casein kinase 2β subunit	85-95
M. Riera, N. Roher, F. Miró, C. Gil, R. Trujillo, J. Aguilera, M. Plana and E. Itarte: Association of protein kinase CK2 with eukaryotic	
translation initiation factor eIF-2 and with grp94/endoplasmin	97–104
S. Grein, K. Raymond, C. Cochet, W. Pyerin, E.M. Chambaz and O. Filhol: Searching interaction partners of protein kinase CK2β	
subunit by two-hybrid screening	105-109
C. Götz, P. Scholtes, A. Prowald, N. Schuster, W. Nastainczyk and M. Montenarh: Protein kinase CK2 interacts with a multi-protein	
binding domain of p53	111-120
S. Grein and W. Pyerin: BTF3 is a potential new substrate of protein kinase CK2	121–128
K. Ackermann and W. Pyerin: Protein kinase CK2α may induce gene expression but unlikely acts directly as a DNA-binding	
transcription-activating factor	129-134
C. Guo, A.T. Davis, S. Yu, S. Tawfic and K. Ahmed: Role of protein kinase CK2 in phosphorylation of nucleosomal proteins in	125 142
relation to transcriptional activity	135–142
A. Ghavidel, D.J. Hockman and M.C. Schultz: A review of progress towards elucidating the role of protein kinase CK2 in polymerase	142 140
III transcription: Regulation of the TATA binding protein	143–148
E. Egyházi, A. Ossoinak, O. Filhol-Cochet, C. Cochet and A. Pigon: The binding of the α subunit of protein kinase CK2 and RAP74	140 150
subunit of TFIIF to protein-coding genes in living cells is DRB sensitive	149-159
K.A. Tenney and C.V.C. Glover: Transcriptional regulation of the <i>S. cerivisiae ENAI</i> gene by casein kinase II	161–167
R. Lin and J. Hiscott: A role for casein kinase II phosphorylation in the regulation of IRF-1 transcriptional activity	169-180
GT. Sheu and J.A. Traugh: A structural model for elongation factor 1 (EF-1) and phosphorylation by protein kinase CKII L. McKendrick, D. Milne and D. Meek: Protein kinase CK2-dependent regulation of p53 function: Evidence that the phosphorylation	181–186
status of the serine 386 (CK2) site of p53 is constitutive and stable	187–199
F.J. Moreno, J. Díaz-Nido, J.S. Jiménez and J. Avila: Distribution of CK2, its substrate MAP1B and phosphatases in neuronal cells	201–205
F. Lebrin, L. Bianchini, T. Rabilloud, E.M. Chambaz and Y. Goldberg: CK2α - protein phosphatase 2A molecular complex: Possible	
interaction with the MAP kinase pathway	207-212
D.G. Bosc, B. Lüscher and D.W. Litchfield: Expression and regulation of protein kinase CK2 during the cell cycle	213-222
D. Li, G. Dobrowolska and E.G. Krebs: Identification of proteins that associate with protein kinase CK2	223-228
J. Roig, A. Krehan, D. Colomer, W. Pyerin, E. Itarte and M. Plana: Multiple forms of protein kinase CK2 present in leukemic cells: In vitro study of its origin by proteolysis	229–234
	235–237

Index to Volume 191